

CLAIMS

1. An electroluminescence device for emitting light by recombination of a hole injected from an anode and an electron injected from a cathode, which is characterized in that:

    a single or a plural of a organic compound layer are disposed between the foregoing electrodes; and

    an inorganic compound is dispersed in at least one of the organic compound layers, thereby changing the luminescent color.

2. The electroluminescence device according to claim 1, which is characterized in that:

    luminescence of the inorganic compound is achieved at a direct current voltage.

3. The electroluminescence device according to claim 1 or 2, which is characterized in that:

    the inorganic compound or a part of the inorganic compound is replaced, thereby changing the luminescent color.

4. The electroluminescence device according to claim 1, 2 or 3, which is characterized in that:

    the inorganic compound is a metallic compound.

5. The electroluminescence device according to claim 1, 2 or 3, which is characterized in that:

    the inorganic compound is a transition metal compound.

6. The electroluminescence device according to claim 1, 2

or 3, which is characterized in that:

the inorganic compound is a rare earth metal compound.

7. The electroluminescence device according to claim 1, 2

or 3, which is characterized in that:

the inorganic compound is a metal halide compound.

8. The electroluminescence device according to claim 1, 2

or 3, which is characterized in that:

the inorganic compound is at least one compound selected from the group consisting of europium iodide, europium bromide, cerium iodide, cerium bromide, terbium iodide, and lead iodide.

9. The electroluminescence device according to claim 1, 2

or 3, which is characterized in that:

the organic compound is 4,4-bis(carbazol-9-yl)-biphenyl; and

the inorganic compound is at least one compound selected from the group consisting of cerium iodide, cerium bromide, terbium iodide, and lead iodide.

10. The electroluminescence device according to claim 1, 2

or 3, which is characterized in that:

the inorganic compound is a combination of a halide of europium and a halide of an alkali metal or a combination of a halide of europium and a halide of an alkaline earth metal.